AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-36.   (Canceled)

37.   (Currently amended)   An imaging system for capturing ~~a non-singulated~~ <u>an</u> image of a plurality of ~~forms traveling~~ <u>objects randomly positioned on a moving conveyor belt,</u> comprising:

a primary lens assembly for converging a beam of light <u>reflected by a surface of the conveyor belt and by objects randomly positioned on the surface</u> ~~emitted from a surface of a conveyor belt towards a secondary lens assembly~~;

a secondary lens assembly for converging said beam of light from said primary lens assembly ~~towards an image detector~~;

a phase mask ~~positioned between said secondary lens assembly and said image detector~~ for altering ~~said~~ <u>the</u> beam of light <u>converged by the secondary lens assembly</u> such that ~~said~~ <u>the</u> imaging system is insensitive to small distances between objects positioned on said conveyor belt and <u>the primary lens assembly</u> ~~said image detector~~; <u>and</u>

a beamsplitter ~~disposed between said phase mask and said image detector~~ for splitting ~~said~~ <u>the altered</u> beam of light to <u>a first image detector and to a second image detector disposed at a 90° angle with respect to the first image detector</u> ~~plurality of image detectors;~~

<u>wherein the</u> ~~a~~ first image detector ~~for generating~~ <u>generates</u> an output signal of a first portion of ~~said~~ <u>the</u> conveyor belt <u>surface</u>; and <u>wherein the</u> ~~a~~ second image detector ~~for generating~~ <u>generates</u> an output signal of a second portion of said conveyor belt <u>surface</u>~~, said second image detector disposed at a 90° angle from said first image detector~~.

-2-

38.   (Original)   The imaging system of claim 37, wherein the phase mask is encoded with a separable point spread function.